



JOB OPPORTUNITY BULLETIN

CLASSIFICATION: Electrical Engineer

TENURE: Permanent

TIME BASE: Full Time

SALARY: Range A - \$5,327 - \$6,352
Range B - \$6,100 - \$7,632
This classification qualifies for a monthly \$300.00 pay differential.

LOCATION: Downtown Sacramento, CA
Energy Systems Research Office

FINAL FILING DATE: Until Filled

Under the general direction of the Electric Generation System Specialist III, the incumbent serves as part of an interdisciplinary team to plan and implement the Energy Research and Development Division's (ERDD) research program. Performs less complex electrical engineering and electronic engineering work on the integration of distributed energy resources (DER), including energy storage systems, renewable DERs, power electronics technology, grid power flow analysis, demand response (DR), application of communications and control systems, and microgrids.

DUTIES AND RESPONSIBILITIES:

- Engineering Assessment. Read, analyze, interpret, and evaluate the electrical and electronic plans, drawings, specifications and other technical information for the advancement, demonstration and deployment of integrated DERs such as renewable technologies (e.g., photovoltaic and wind), energy storage technologies, and communication/control systems to ensure the integrated DER systems meet or exceed identified electrical design specifications and provide reliable, safe and cost-effective options. Evaluate electrical power flow and grid electrical interconnections which includes preparing or reviewing material lists and requisitions material selection and specifications, performance and suitability of components, efficiency and economics of engineering design options, cost, and performance. Evaluate electrical delivery systems (distribution or transmission) performance and energy efficiency improvements from a state-wide strategic perspective. Conduct field surveys, site visits and inspections of R&D funded DER demonstrations to ensure field systems comply with electrical requirements and engineering specifications in contracts that include: electrical codes, building standards, CEQA requirements, and other required general engineering codes, standards or directives. Review electrical, engineering and system performance data at field and laboratory demonstrations to ensure system performance meets or exceeds specific electrical engineering and overall system performance specifications defined in legal agreements.
- Agreement Management. Prepare funding and grant agreement documents; establish and maintain proactive technical and business relationships with R&D recipients by providing guidance and direction to recipients as needed; proactively monitor progress and identify possible changes in research direction; initiate and approve agreement amendments; receive and review monthly progress reports and prepare evaluations and detailed electrical engineering assessments of the project; verify all contract terms and conditions are met before approving invoices; conduct independent and in-depth technical reviews and engineering specification reviews; initiate detailed project site inspections to ensure the project meets technical, fiscal, and administrative objectives; brief office, division, and commission management on the status of the project.

- **Solicitation Management.** Prepares research project plans, specifies research project tasks and estimates research budgets for research projects. Analyze and evaluate research plans, specifications and estimates to meet various electrical codes, safety orders and regulations governing the design and installation of electrical equipment and apparatus, and other similar power installations. Analyze proposals to determine how well the proposed research addresses the scope of the solicitation criteria including, but not limited to: the extent the project would advance science or technology, address market issues and needs, meet specified target goals and objectives; project team skills and experience to perform the technical tasks within the budget and schedule, the ability to move the results into the marketplace; and the adequacy of project funding. Prepare written findings of such evaluations for use by a technical scoring committee.
- **Technology Transfer.** Oversee the finalization of project reports, fact sheets, annual reports and other documents to disseminate research results and lessons learned to Energy Commission staff and others with a focus on transferring information that provides significant public benefits to California and meets the state's energy policies and goals.

DESIRABLE EXPERIENCE/QUALIFICATIONS: The successful applicant should have:

- Computer theory and operation
- Mathematics related to electrical engineering;
- Electrical and electronic theory and practices;
- Modern electrical apparatus, communications, instrumentation; direct and alternating current circuits; methods, materials, tools and equipment;
- National Electric Code and Electrical Safety Orders of the Division of Occupational Safety and Health.
- Ability to do electrical and electronic design work;
- Inspect electrical installations; specify necessary equipment and materials;
- Accurately interpret drawings, circuit diagrams, and specifications;
- Maintain cooperative relations with employees whose work is being inspected; analyze situations accurately and take effective action; make effective oral and written reports.
- Excellent interpersonal skills and expected to work within a large team environment.
- Ability to communicate complicated information in a simple, consumer-friendly manner.
- Ability to coordinate interdisciplinary projects.

WHO MAY APPLY: Interested applicants must submit a completed Standard State Application (Form STD. 678) with an original signature to the contact/address listed below. Electronic applications will also be accepted. You must clearly indicate the basis of your eligibility (i.e. list, transfer, SROA/Surplus, reinstatement, etc.) including the following, RPA 330-267 and Position #535-330-3613-001, in the "Explanation Section" of the STD 678. Resumes are welcome but do not take the place of the completed State Application STD 678. Applications will be screened for experience and only the most qualified will be contacted for an interview. NOTE: Failure to comply with the filing instructions and incomplete applications received will not be considered.

APPLICANTS MUST SUBMIT A COMPLETED STANDARD STATE APPLICATION (FORM STD. 678) TO:

Personnel Services Office
Attn: RPA #330-267
1516 9th Street, MS-3
Sacramento, CA 95814
Phone: 916-654-4309

California Relay (Telephone) Service for
the Deaf or Hearing-Impaired
From hTDD Phones: 1-800-735-2929
From Voice Phones: 1-800-735-2922
personnelservices@energy.ca.gov